

Central Valley Flood Protection Plan HANDOUT 2

Round 2 Management Actions Workshops Categories of Management Actions for Urban Areas Workshop

Managemen Action Category ¹	Types of Management Actions in this Category	
	ID ²	Title
	MA-016	Improve conveyance and facilitate habitat restoration by reducing flow constrictions.
	MA-017	Increase capacity of existing bypasses.
	MA-018	Modify existing weirs or overflows to improve flood system performance.
	MA-019	Construct new bypasses to improve flood system performance.
Floori	MA-020	Construct new levees to expand existing system capability.
Flood Protection	MA-021	Raise levees to improve flood system performance.
System Modification	MA-022	Construct setback levees.
	MA-023	Construct ring levees.
	MA-024	Improve structural performance of existing levees.
	New MAs Under Consideration	 Construct closure structures. Remove and/or deauthorize levees. Construct training levees or levees that subdivide larger basins.
	MA-025	Acquire floodplain property that can contribute to flood management system efficiency.
Floodplain Management	MA-026	Manage municipal stormwater to provide regional or systemwide flood benefits.
	MA-028	Coordinate and streamline floodplain mapping to improve consistency of floodplain delineation and assessment of flood risk.
	MA-074	Increase flood risk awareness through outreach.
	MA-075	Provide technical assistance to local agencies for compliance and grant application assistance.
	MA-076	Assist in development of local flood management plan updates.
	MA-077	Improve awareness of Community Rating System insurance-rate adjusting program.
	MA-078	Develop mandatory flood insurance programs that are consistent with the risk of flooding.
	MA-079	Increase public understanding of FEMA maps and policies.
	MA-080	Eliminate subsidies for structures that are repetitively damaged.

 $^{^1}$ Management Action Categories listed in order as they appear in Draft Workshop Worksheet. 2 ID is used to track management actions and do not indicate any ranking or importance.

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	ID^2	Title
	New MA Under Consideration	Floodproof structures in the floodplain.
	MA-001	Enlarge existing transitory floodplain storage.
	MA-002	Construct new transitory floodplain storage.
	MA-003	Increase on-stream flood storage capacity by building new storage facilities.
	MA-004	Update/modify existing flood storage facilities.
Additional	MA-005	Create new storage in existing reservoirs via dredging activities.
Floodplain and Reservoir	MA-006	Increase flood control allocation by expanding existing, on-stream reservoirs.
Storage	MA-007	Increase foothill and upper watershed storage.
	MA-008	Increase flood control allocation by using Spillway Surcharge.
	MA-009	Increase flood control allocation at existing reservoirs by building new, off-stream storage.
	MA-010	Increase flood control allocation at existing reservoirs by expanding existing off-stream storage.
	MA-011	Establish partnerships to coordinate flood management structure operations.
	MA-012	Increase flood management flexibility through modifications to the magnitude/timing of flood reservations in reservoirs.
Storage Operations	MA-013	Increase flood management flexibility through modifications to objective release schedules at flood management reservoirs.
	MA-014	Increase flood management flexibility by implementing conjunctive use programs at flood management reservoirs.
	MA-015	Increase flood management flexibility by using transitory storage.
Disaster Preparedness & Flood Warning	MA-063	Coordinate flood response planning and clarify roles and responsibilities related to flood preparedness and emergency response.
	MA-064	Improve communication and public awareness of emergency response procedures and terminology.
	MA-065	Establish standard flood warning systems and procedures.
	MA-066	Improve stream gage network for forecasting purposes.
	MA-067	Implement advanced weather forecast-based operations to increase reservoir management flexibility.
	MA-068	Create systemwide levee instrumentation for early warning systems.

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	MA-069	Protect critical infrastructure corridors from flood waters.
	MA-070	Expand the State's assistance to LMAs during flood emergencies.
Flood Fighting, Emergency	MA-071	Improve evacuation planning.
Response & Flood Recovery	MA-072	Develop a post-flood recovery plan for the Central Valley and Delta to improve the coordination and efficiency of post-flood public assistance.
	MA-073	Streamline the post-flood permitting process for flood system repairs.
	MA-081	Purchase and position flood fighting materials in preparation for a flood event.
	New MA Under Considerat ion	Integrate environmental compliance and mitigation into flood fighting.
	MA-039	Reduce runoff through upper watershed management.
	MA-040	Improve quality and quantity of wetland habitat within the flood system.
	MA-041	Improve quality and quantity of riparian habitat in the flood system.
	MA-042	Improve natural riverine processes by removing un-natural hard points along channels
	MA-043	Develop hazardous waste and materials management protocols to identify, contain and remediate potential water quality hazards within floodplains.
Ecosystem	MA-044	Reoperate flood-control reservoirs to more closely approximate natural flow regimes.
Restoration	MA-045	Reduce the incidence of invasive species in the flood management system.
	MA-046	Remove barriers to fish passage within the flood system.
	MA-047	Set back levees to connect rivers to floodplains.
	MA-048	Reconnect floodplains to restore seasonal habitat.
	New MA Under Consideration	Facilitate natural sediment transport.

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	MA-059	Increase funding for flood management projects by leveraging Federal funding.
	MA-060	Leverage funding from multiple projects to improve cost- effectiveness and efficiency of flood management projects.
	MA-061	Create a bank or other financial mechanism that pre-funds both O&M and mitigation activities.
	MA-062	Explore alternative funding for O&M and new flood management improvements.
Finance &	MA-082	Compensate rural areas for accepting lesser flood protection than urban areas.
Revenue	uo.	 Establish a methodology for evaluating benefits and costs on a systemwide basis to support economic justification for projects in all community settings.
	New MAs Under Consideration	 Create a strategic pooled money account the pre-funds avoidance/mitigation solutions for operation and maintenance impacts on current and future flood control structures.
		 Create a strategic pooled money account that could provide funds for land stewardship activities at current and future flood-related mitigation areas over perpetuity.
		 Create a strategic pooled money account that provides funds and consultation assistance to agencies that have operation and maintenance responsibilities.
	MA-049	Encourage compatible land uses with flood management system and floodplain function.
	MA-050	Establish clear triggers or policy for updating flood management-related General Plan elements and other local flood management plan(s).
	MA-051	Update State's designated floodway program.
	MA-052	Use Building Code amendments to reduce consequence of flooding
Policy & Regulations	MA-053	Update state and local floodplain management policy to be consistent with FEMA requirements for maintaining eligibility for NFIP participation and federal financial assistance.
	MA-057	Encourage multi-jurisdictional and regional partnerships on flood planning and improve agency coordination on flood management activities, including operation and maintenance, repair, and restoration
	MA-058	Develop State criteria and processes for urban flood protection
	tion	Develop criteria for flood protection outside urban areas.
	New MAs Under Considera	Update Title 23 standards.
	New MAs Under Consideration	 Clarify responsibilities for all agencies of all local, regional, State, and federal.

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Flood SAFE CALIFORNIA

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	ID	Title		
	MA-029	Restore channel form and function to improve O&M and facilitate flood damage reduction.		
	MA-030	Perform clearing and snagging within channels.		
	MA-031	Perform dredging to remove sediment from channels.		
	MA-032	Reuse excess materials derived from channel maintenance.		
	MA-033	Develop regional vegetation management plans.		
	MA-034	Improve administration of encroachment permits.		
	MA-035	Improve administration and oversight of levee penetrations.		
Operation &	MA-036	Improve interior drainage.		
Maintenance)	MA-037	Protect vulnerable levees and banks through stabilization and erosion repairs.		
	MA-038	Revise O&M manuals and inspection criteria to promote best maintenance practices that support multi-benefits of the flood system.		
	MA-083	Effectively maintain and operate closure structures.		
	New MAs Under Consideration	Develop and implement structure rehabilitation and repair program.		
Permitting	MA-054	Develop regional and river-corridor conservation plans, or expand existing regional conservation plans (such as regional Habitat Conservation Plans and Natural Community Conservation Plans) to provide a more efficient and effective regulatory approval process for flood projects.		
	MA-055	Develop regional advance mitigation strategies and networks of mitigation banks to meet the needs of flood and other public infrastructure projects.		
	MA-056	Develop regional permitting approaches such as corridor management strategies (CMS).		
	New MAs Under Consideration	 Establish Memoranda of Understanding and/or management agreements between agencies to integrate project plans and permits. Expand the scope or use of the Small Erosion Repair Program for both existing and new projects. 		
	New Con.	Develop a permitting handbook for flood management projects.		

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